

# Fabien Houang

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## EDUCATION

### EPITA

#### MSC IN COMPUTER SCIENCE

2015-2019 | Paris, France

**SCIA** - Major in Data Science and Artificial Intelligence

## LINKS

LinkedIn:// [houang-fabien](#)

Github:// [fabienhouang](#)

Gitlab:// [fabien\\_houang](#)

Portfolio:// [fabienhouang.github.io](#)

## COURSEWORK

Unix Tools and Scripting  
 Data Structures & Algorithms  
 Functional Programming  
 Probabilities & Statistics  
 Big Data & Data Processing  
 Features Extraction  
 Convex Optimization  
 Computer Vision  
 Machine Learning  
 Deep Learning Engineering  
 Cloud Computing

## SKILLS

### PROGRAMMING

Proficient:

C/C++ • Python •  $\LaTeX$

Linux shell • SQL | PostgreSQL

Comfortable:

Go • Javascript • Scala • Ruby

NoSQL | MongoDB • Rails • Django

Familiar:

Caml • Matlab • Lua

### LIBRARIES & TOOLS

Proficient:

Keras • Numpy • OpenCV

Pytorch • Google Colab • VTK

OpenMP • Optuna • Neptune

Jupyter Notebook • Matplotlib

Sacred | Omniboard • GIT

GCP • Terraform • Tensorflow

Comfortable:

Pandas • Seaborn • Scikit-Learn

Familiar:

AWS • Spark • Hadoop

### LANGUAGES

English                      Fluent  
 French                        Native  
 Chinese(Mandarin)      Proficient

## EXPERIENCE

### SFEIR | AGILE DATA ENGINEER

May 2021 - Sep 2023 | Paris, France

**Skills** : Python, SQL, Google Cloud Platform, Terraform, Bigquery, Workflows, Flask

- Worked for client **L'Oreal** and collaborated on an agile environment for 2+ years
- Migrated data from different sources like SAP, Ivalua, Anaplan, Tibco to GCS/BQ
- Created processing pipelines on **GCP** using **Terraform** for IaC and **Cloud Workflows/Scheduler** to orchestrate and automate processing steps
- Stored processed data and created views in **BigQuery** for reports and applications
- Exposed data through API implemented with **Flask**, running on **Cloud Run**
- Setup authentication through **Azure AD** and **Apigee** to access data from GCP
- Created and maintained technical documentation on **Confluence**

### SIEMENS HEALTHINEERS | RESEARCH ENGINEER IN DEEP LEARNING

Mar 2019 - Mar 2020 | Princeton, New Jersey, United States

**Skills** : C/C++, Python, PyTorch, Optuna, OpenMP, OpenCV, Sacred | Omniboard, VTK

- Collaborated on **3D cardiac chambers modelization** project using 3D ultrasounds
- Trained **Multi-Agent Deep Reinforcement Learning** for landmarks detection
- Implemented and trained 3D volumes classification models on unbalanced dataset
- Optimized production code speed and optimized models hyper-parameters
- Achieved **3x faster and 10% more accurate modelization** than the base solution

### III-FINANCEMENTS | FULL STACK DEVELOPER

Sep 2017 - Feb 2018 | Paris, France

- Developed a management web application and statistical analysis dashboards
- Designed Front-end, Back-end, and Database Modeling using **Ruby on Rails**
- Deployed the application and is currently used by more than 80% of the staffs

### ATOS | WEB APPLICATION DEVELOPER

Jun 2016 - Aug 2016 | Paris, France

- Worked for their client GRDF (Gas Networks of France)
- Created Data Visualization applications for their decision-making department
- Provided documentations on the developed applications and the source code

## PROJECTS

### AUTONOMOUS RACING CAR | PYTHON, KERAS 🏎️

Apr 2018 - Feb 2019 | Paris, France

- Led a team of 4 students and competed against more than **20 teams nationwide**
- Built an autonomous RC car connected to a **Raspberry Pi 3** with camera module
- Collected, processed and simulated data for Deep Learning training
- Designed, trained **time and memory efficient** models to run on embedded system

## CERTIFICATIONS

2021	July 21st	Google Cloud Certified Professional Data Engineer🔑
2022	Dec 1st	Google Cloud Certified Professional Cloud Architect🔑
2023	Apr 12th	Google Cloud Certified Professional Machine Learning Engineer🔑
2023	Apr 29th	Google Cloud Certified Professional Cloud DevOps Engineer🔑
2023	Sep 27th	Google Cloud Certified Professional Database Engineer🔑
2023	Oct 30th	Google Cloud Certified Professional Security Engineer🔑
2023	Nov 14th	Google Cloud Certified Professional Cloud Developer🔑